

Liquid-vapor Phase Equilibrium in the System
Ethyl Alcohol-water-calcium Chloride at
Atmospheric Pressure, by L. L. Dobroserdov.
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Ethyl Alcohol-water-sodium Chloride at Atmos-
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Ethyl Alcohol-water-sodium Acetate at
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Sci - Electron, Engr

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Delone, D. K. Faddeyev.

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I, by A. N. Kolmogorov, A. A. Svesnikov, I. A.
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CTS 69/Jun 55

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Scientific - Mathematics

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ON THE METHOD OF NEWTON. [1963] [46p] 19 refs.
Order from OTS, SLA or ETC \$4.60 TT-63-20748

Trans. of [Akademiya Nauk SSSR]. Matematicheskii
Institut (Trudy, 1949, v. 28, p. 104-144.
(Abstract available)

DESCRIPTORS: *Numerical methods and procedures,
Algebra, Equations, Integral equations, Matrix algebra,
Mathematics,

Newton's method is developed for application to systems
of algebraic equations, nonlinear integral equations,
and the eigenvalue problem. The fundamental theorems
on convergence of the method are presented as well as
a theorem on the existence and uniqueness of solutions.
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1. Kantorovich, L. V.

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Linear Differential Equations of Infinite Order
With Constant Coefficients and Asymptotic Periods
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Full translation.

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AEC Tr 1546

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The Theory of Algorithms, by A. A. Markov, 14 pp.

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Rich. 19 Sep 62 [15]p. 8 refs. [AMC] (Redstone)
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Order from OTS or SLA \$1.60

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p. 210-219.

DESCRIPTORS: *Calculus of variations.

(Mathematics, TT, v. 9, no. 9)

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- I. Title: Two-dimensional problem
- I. Kerimov, M. K.
- II. AMC(Redstone)
Trans-33-62
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Redstone Arsenal, Ala.

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On the Consistency of Some Propositions of the
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RUSSIAN, per, Trudy Mat Inst Steklov, No 38,
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Sci - Math & Data Proc
Oct 63

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Markov, A. A.
THEORY OF ALGORITHMS (Teoriya Algorifmov) tr.
by Jacques J. Schorr-Kon and others. 1961, 44p.
32 refs. PL-480.
Order from OTS \$4.50

60-51085

Trans. of Akademiya Nauk SSSR, Matematicheskii
Institut, Trudy, 1954, v. 42.
Partial translations of introduction, chaps. 1-3, and
5-6 are available separately.

DESCRIPTORS: *Mathematics, Numerical methods and
procedures, Mathematical logic, Theory.

The material here comprises a series of lectures given
by the author several times at the Leningrad University.
Chapter headings are entitled (1) letters, alphabets, and
words; (2) the notion of algorithm; (3) the construction
of normal algorithms; (4) the universal algorithm;
(Mathematics, TT, v. 6, no. 11) (over)

60-51085

- I. Title: Algorithms
- I. Markov, A. A.
- II. PL-480(60-51085)
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The Theory of Algorithms, by A. A. Markov

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CIA/FDD X-2818

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Okhotsimskiy, I. L. Kondrasheva, Z. P. Vlasova,
R. K. Kazakova, 93 pp.

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JPRS 5767

Sci - Phys

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Nov 60

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On the Separability of Subsets of Vertices of an
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JPRS 2643

Sci - Math

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On One Property of Functions Being Realized by
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Sci - Mathematics

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On Nonrepetitive Contact Networks and
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Algebraic Logic, by A. V. Kuznetsov, 83 pp.

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JPRS 5121

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(NY-3316)

On the Theory of Non-Repetitive Networks, by
B. A. Trakhtenbrot, 82 pp.

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JPRS 5123

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On the Constructive Interpretation of Mathematical
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Application of the Characteristics Method to
Numerical Solution of Unidimensional Problems
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The Plane Motion of a Viscous Incompressible Fluid,
by K. K. Golovkin, 54 pp.
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Steklova, Vol LIX, 1960, pp 37-86.
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The Solution of Certain Nonsteady-State Problems of
Magnetohydrodynamics for a Viscous Incompressible
Fluid, by O. A. Ladyzhenskaya, V. A. Solonnikov,
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Investigation of a Family of Function Spaces
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Extension, by O. V. Besov, 42 p.
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An Extension of the Principle of Subordination to
Multiply Connected Regions, by Ju. E. Alenicyan,
18 p.

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pp 82-95. 9668570

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On Approximation of Functions in the Spaces $W_p^{(1)}(D)$
and $W_p^{(1)}(D)$ by Continuouslt Different-
iable Functions, by V. P. Il'in, 20 p.
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The Cauchy Problem for the Kinetic Equation of
Plasma, by S. V. Iordanskiy.
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Sci - math
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Integrals of Cauchy Type, by P. L. Ul'janov,
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On Approximation, with reference to the Size of
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Some Properties of Constructive Real Numbers and
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